

# SANYO AM/FM PORTABLE RADIO RP 5311 (z) SERVICE MANUAL



A PRODUCT OF SANYO ELECTRIC CO., LTD.

Frequency Ranges:

MW (AM) 510 - 1605 kHz

FΜ 87.5 - 108 MHz

Intermediate Frequencies:

MW (AM) 455 kHz (for Canada) 460 kHz (for Continental)

FM

10.7 MHz

Transistors:

FM RF Amplifier 2SC930E

2SC930D FM Converter 2SA101 MW Converter 2SC930E x 2 FM/MW IF Amplifiers

2SC930E FM IF Amplifier 2SB185 Audio Amplifier 2SC537 Audio Driver 2SB187

2SD187)

Audio Output

Diodes:

Sensitivity:

MW 70µV/m (for 50 mW output)

FM 4μV

Power Output:

Maximum 500 mW

Undistorted 300 mW

Power Source:

6V DC; Four 1.5V Penlight Batteries and

117 V AC for Canada market (RP 5311 PF)

220 V AC for Continental Market (RP 5311 Z/SM)

Current Drain:

No signal 15 mA

Maximum 150 mA

Outlets:

8 Ohm Earphone & FM Stereocast Adaptor

Speaker:

2-1/4" PM Dynamic Speaker

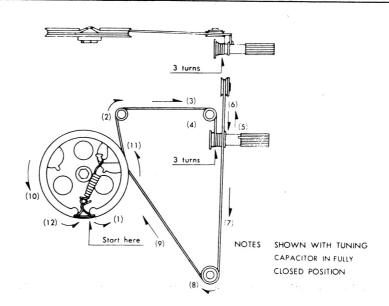
Cabinet Dimensions:

7-3/8"(W) x 4-7/8"(H) x 2-1/8"(D)

Weight:

1-3/8 lbs.

### DIAL CORD STRINGING



### TO TAKE OUT CHASSIS

- 1. Remove two screws on the cabinet back, and separate the cabinet back.
- 2. Remove three slide knobs and a tuning control knob.
- 3. Remove three screws (marked in red) on the chassis.
- 4. Then take out the chassis carefully.

## **GENERAL ALIGNMENT CONDITIONS**

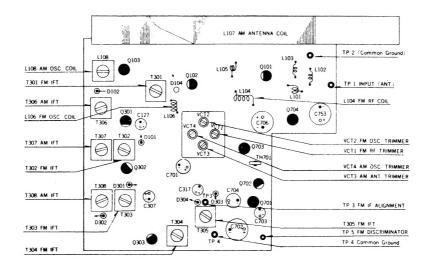
- 1. The position of volume control is at maximum position.
- 2. The position of tone control is at "HIGH" position.
- 3. Signal input must be kept as low as possible to avoid overload.
- 4. Use an output of the highest possible sensitivity.
- 5. Standard modulation is 400 Hz at 30% amplitude (for AM) and 22.5 kHz deviation (for FM).

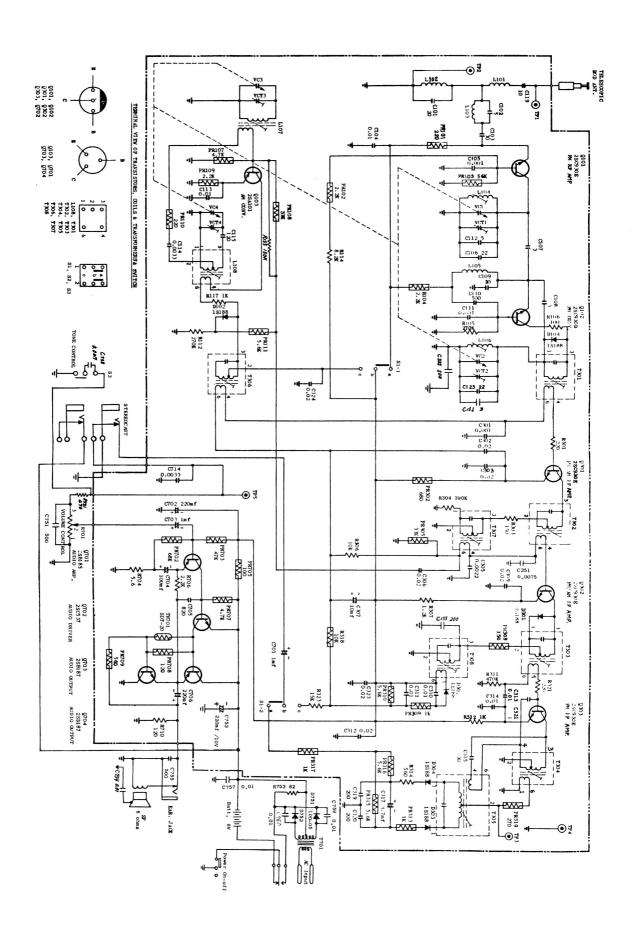
# AM BAND - Band selector switch in AM position

- 1			· · · · · · · · · · · · · · · · · · ·	r				
	Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks	
	1	Loop Antenna	455 kHz 460 kHz	Lowest End	Across Speaker	IFT T306, T307, & T308	Adjust for Maximum.	
١	2	Same	600 kHz	600 kHz	Same	Osc. Coil L108	Same	
	3	Same	1400 kHz	1400 kHz	Same	Osc. Trim VCT4	Same	
	4	Same	600 kHz	600 kHz	Same	Ant. Coil L107	Same	
	5	Same	1400 kHz	1400 kHz	Same	Ant. Trim. VCT3	Same	
	6	Repeat steps 2 thru 5 to obtain maximum sensitivity.						

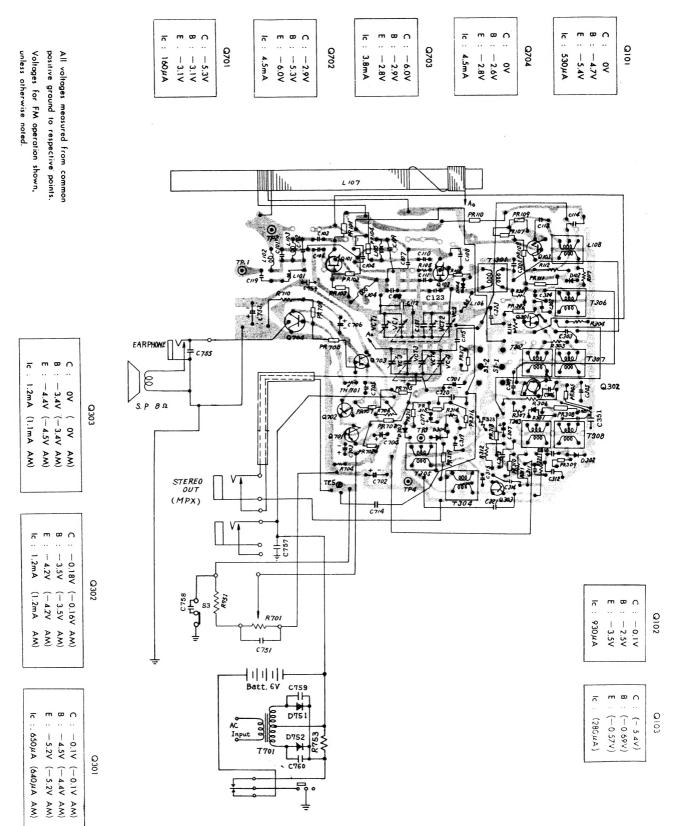
## FM BAND - Band selector switch in FM position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Meter or Oscilloscope	Adjust	Remarks
7	Connect Sweep Marker Gener- ator to TP. 1 and TP. 2.	10.7 MHz	Lowest End	Connect scope input cable thru network to TP. 3 and TP. 4.	IFT T301, T302, T303, & T304.	Adjust for maximum sensitivity with symmetrical curve.
8	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to R 317 and TP.4.	IFT T305	Adjust for symmetrical "S" curve.
9	Connect Signal Generator to TP. 1 and TP.2.	90 MHz	90 MHz	Connect V.T.V.M. across speaker	Osc. Coil L106	Adjust for maximum.
10	Same	106 MHz	106 MHz	Same	Osc. Trimmer VCT2	Same
11	Same	90 MHz	90 MHz	Same	RF Coil L104	Same
12	Same	106 MHz	106 MHz	Same	RF Trimmer VCT 1	Same
13	Repeat steps 9 thru 12 to obtain maximum sensitivity.					





# AP 5311 CIRCUIT BOARD DIAGRAM (Bottom View)



Part No.  PACKING  123-6-411R 463 123-6-141R 374 123-6-144R 281 123-6-144R 282  123-6-472R 306 09 123-6-472R 292 06 123-6-472R 292 07 123-6-475R 121 123-6-472R 13 123-6-472R 13 123-6-472R 13 123-6-472R 13 123-2-111R 142 02 123-2-123R 106 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Operating Instructions Individual Carton Foam-plastic Cushion Foam-plastic Cushion Cushion, Handle, 80×170×1.5t Polypropylene Bag, 300×280 Polypropylene Bag, 80×200 Label, "FTZ" Label, "SM" Notice, RP 5311 SM only Label, "PF" Label, CSA Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only Garantee Card, RP 5311 PF only Cabinet, Front - Side Metal, Lefthand - Side Metal, Lefthand - Side Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	0'ty  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SEM Q101 Q102 Q103 Q301,302	Part No.  CTRIC ITEMS  4-235R 188 4-235R 169 4-151R 106 91  4-151R 106 91  4-152R 108 96 4-152R 108 01 4-244R 120 .123-2-472R 010 4-235R 166 123-2-472R 004 123-2-336R 142 123-2-336R 144 B 123-2-336R 145 4-226R 132  NI-CONDUCTORS  2SC930E 2SC930D 2SA101	Socket, AC Inlet, RP 5311 SM Socket, AC Inlet, RP 5311 PF, Canada Speaker, 3-1/4" 8 ohms, RP 5311 Z/SM Speaker, 3-1/4" 8 ohms, RP 5311 PF Earphone, RP 5311 Z/SM Earphone, RP 5311 Z/SM Earphone, RP 5311 PF Telescopic Rod Antenna Lug, Telescopic Rod Antenna Socket, STEREOCAST/EARPHONE Lug, C754 & ⊕ B. Supply Terminal, Battery, Negative End Terminal, Battery, Positive, Top Terminal Battery, Positive, Bottom Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier
123-6-411R 463 123-6-141R 374 123-6-144R 281 123-6-144R 282 123-6-472R 306 09 123-6-472R 292 06 123-6-472R 292 07 123-6-415R 121 123-6-472R 292 02 123-6-472R 213 123-6-433R 101 CABINET  R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Individual Carton Foam-plastic Cushion Foam-plastic Cushion Cushion, Handle, 80×170×1.5t Polypropylene Bag, 300×280 Polypropylene Bag, 80×200 Label, "FTZ" Label, "Z" Label, "SM" Notice, RP 5311 SM only Label, "PF" Label, CSA Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only Garantee Card, RP 5311 PF only - Side Metal, Lefthand - Side Metal, Lefthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SEM Q101 Q102 Q103 Q301,302	4-235R 188 4-235R 169 4-151R 106 91 4-151R 106 91 4-152R 108 96 4-152R 108 01 4-244R 120 4-235R 166 123-2-472R 010 4-235R 166 123-2-472R 004 123-2-336R 142 123-2-336R 144 B 123-2-336R 145 4-226R 384 4-226R 132 MI-CONDUCTORS	Socket, AC Inlet, RP 5311 PF, Canada Speaker, 3-1/4" 8 ohms, RP 5311 Z/SM Speaker, 3-1/4" 8 ohms, RP 5311 PF Earphone, RP 5311 Z/SM Earphone, RP 5311 JF Telescopic Rod Antenna Lug, Telescopic Rod Antenna Socket, STEREOCAST/EARPHONE Lug, C754 & ⊕ B. Supply Terminal, Battery, Negative End Terminal, Battery, Positive, Top Terminal Battery, Positive, Bottom Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier
123-6-141R 374 123-6-144R 281 123-6-144R 282  123-6-144R 282  123-6-472R 306 09 123-6-472R 292 06 123-6-472R 292 07 123-6-415R 121 123-6-472R 292 02 123-6-472R 213 123-6-433R 101  CABINET  R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Individual Carton Foam-plastic Cushion Foam-plastic Cushion Cushion, Handle, 80×170×1.5t Polypropylene Bag, 300×280 Polypropylene Bag, 80×200 Label, "FTZ" Label, "Z" Label, "SM" Notice, RP 5311 SM only Label, "PF" Label, CSA Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only Garantee Card, RP 5311 PF only - Side Metal, Lefthand - Side Metal, Lefthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q101 Q102 Q103 Q301,302	4-235R 169 4-151R 106 91 4-151R 106 91 4-152R 108 96 4-152R 108 01 4-244R 120 123-2-472R 010 4-235R 166 123-2-472R 004 123-2-336R 142 123-2-336R 144 B 123-2-336R 145 4-226R 384 4-226R 132 II-CONDUCTORS	Socket, AC Inlet, RP 5311 PF, Canada Speaker, 3-1/4" 8 ohms, RP 5311 Z/SM Speaker, 3-1/4" 8 ohms, RP 5311 PF Earphone, RP 5311 Z/SM Earphone, RP 5311 PF Telescopic Rod Antenna Lug, Telescopic Rod Antenna Socket, STEREOCAST/EARPHONE Lug, C754 & ⊕ B. Supply Terminal, Battery, Negative End Terminal, Battery, Positive, Top Terminal Battery, Positive, Bottom Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier
123-6-472R 292 06 123-6-472R 292 07 123-6-415R 121 123-6-472R 292 02 123-6-472R 213 123-6-433R 101  CABINET  R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Polypropylene Bag, 300×280 Polypropylene Bag, 80×200 Label, "FTZ" Label, "Z" Label, "SM" Notice, RP 5311 SM only Label, "PF" Label, CSA Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only  Cabinet Assembly, RP 5311 PF only  Cabinet, Front - Side Metal, Lefthand - Side Metal, Lefthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q101 Q102 Q103 Q301,302	4-152F 108 96 4-152R 108 01 4-244R 120 123-2-472R 010 4-235R 166 123-2-472R 004 123-2-336R 142 123-2-336R 144 B 123-2-336R 145 4-226R 384 4-226R 132 MI-CONDUCTORS 2SC930E 2SC930D	Earphone, RP 5311 Z/SM Earphone, RP 5311 PF Telescopic Rod Antenna Lug, Telescopic Rod Antenna Socket, STEREOCAST/EARPHONE Lug, C754 & ⊕ B. Supply Terminal, Battery, Negative End Terminal, Battery, Positive, Top Terminal Battery, Positive, Bottom Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier
123-6-472R 292 07 123-6-415R 121 123-6-472R 292 02 123-6-472R 213 123-6-433R 101 CABINET  R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Label, "SM" Notice, RP 5311 SM only Label, "PF" Label, CSA Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only  Cabinet Assembly, RP 5311 Z - Cabinet, Front - Side Metal, Lefthand - Side Metal, Righthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q101 Q102 Q103 Q301,302	123-2-472R 004 123-2-336R 142 123-2-336R 144 B 123-2-336R 145 4-226R 384 4-226R 132 MI-CONDUCTORS 2SC930E 2SC930D	Lug, C754 &   B. Supply Terminal, Battery, Negative End Terminal, Battery, Positive, Top Terminal Battery, Positive, Bottom Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier  Transistor
CABINET  R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	Catalogué, RP 5311 PF only Garantee Card, RP 5311 PF only  Cabinet Assembly, RP 5311 Z - Cabinet, Front - Side Metal, Lefthand - Side Metal, Righthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1 1 1	Q101 Q102 Q103 Q301,302	4-226R 384 4-226R 132 MI-CONDUCTORS 2SC930E 2SC930D	Printed Circuit Board, Transformer mtg. Printed Circuit Board, Rectifier Transistor
R-AR577 123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	- Cabinet, Front - Side Metal, Lefthand - Side Metal, Righthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1	Q101 Q102 Q103 Q301,302	1I-CONDUCTORS 2SC930E 2SC930D	Transistor
123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	- Cabinet, Front - Side Metal, Lefthand - Side Metal, Righthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1	Q102 Q103 Q301,302	2SC930D	
123-2-111R 142 02 123-2-123R 105 123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	- Side Metal, Lefthand - Side Metal, Righthand - Marking Metal, Top Front - Cloth Sheet, Marking Metal - Speaker GRille - Badge, SANYO - Clear Plastic Panel, Dial	1 1 1 1 1 1 1	Q102 Q103 Q301,302	2SC930D	
123-2-123R 106 123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	-Side Metal, Righthand -Marking Metal, Top Front -Cloth Sheet, Marking Metal -Speaker GRille -Badge, SANYO -Clear Plastic Panel, Dial	1 1 1 1 1	Q103 Q301,302		
123-2-143R 246 A 123-2-153R 262 123-2-122R 149 123-2-142R 128	-Cloth Sheet, Marking Metal -Speaker GRille -Badge, SANYO -Clear Plastic Panel, Dial	1 1			Transistor (for use in 15 stage)
123-2-122R 149 123-2-142R 128	-Speaker GRille -Badge, SANYO -Clear Plastic Panel, Dial	1	303	2SC930E	Transistor, (for use in IF stage)
123-2-142R 128	-Badge, SANYO -Clear Plastic Panel, Dial	1 1	Q701	2SB185	Transistor, (black rank)
		1 ' 1	Q702 Q703	2SC537Z 2SB187	Transistor, (F or G rank) Transistor, (brown rank)
123-2-137R 156 123-2-126R 260	-Cabinet, Back	1 1	Q704	2SD187	Transistor, (brown rank) a pair
123-2-384R 121	-Rest, Telescopic Antenna	1	D102,301	1S188AM	Diode
123-6-424R 127 123-2-128R 158	-Battery Instruction -Lid, Battery Compartment	1 1	302 D104	1S188FM	Diode
123-2-126K 156	Cushion, Battery Lid, 12×30×6t	1 1	D303,304	1S188D	Diode, FM Discriminator
R-AR578	Cabinet Assembly, RP 5311 PF	1 1	TH701 D751,752	SDT-20 10D-05	Thermistor Diode, Silicon Rectifier
123-2-111R 142 02 123-2-126R 260	-Cabinet, Front -Cabinet, Back		0/51,/52	100-05	
123-2-141R 309 01	-Model No. Plate, RP 5311 PF	1 1	COI	LS & TRANSFORM	IERS
123-2-143R 280 01 R-AR579	LMarking Plate, RP 5311 PF Cabinet Assembly, RP 5311 SM				
123-2-111R 142 02	- Cabinet, Front	1	L101,102, 105	4-265R 050A	Coil, VHF, 6-1/2 turns
123-2-126R 260 01	-Cabinet, Back, RP 5311 SM -Model No. Plate, RP 5311 SM	1 1	L103	4-265R 128	Coil, VHF, 3-1/2 turns
123-2-141R 309 123-0-171R 141	Handle Assembly	1 1	L104	4-265R 013	Coil, VHF, 3-1/2 turns Coil, VHF, 3-1/2 turns
123-2-271R 159	Stud Nut, Handle mtg. Spacing Plastic, Handle mtg.	2 2	L106 L107	4-265R 125 4-257R 306 02 A	Coil, AM Antenna, RP 5311 PF, Canada
123-2-273R 106	Washer, 5.3×9.3×0.2t, Handle mtg.	4	L107	4-257R 306 96 A	Coil, AM Antenna, RP 5311
123-2-457R 104	Square Metal, Tapped, Handle mtg.	2	L108	4-258R 248 30	Z/SM, Continental Oscillator Coil, AM
123-0-164R 110 123-2-163R 206	Knob, Slide Knob, Tuning Control	3 1	T301	4-256R 208 30	IF Transformer, FM
120-2-100H 200	Cushion, Slide Knob, 3.5 × 3.5 × 1.5 t	6	T302,303	4-256R 195 30	IF Transformer, FM
123-2-421R 102	Screw, Cabinet mtg. Dial Scale	2	T304 T305	4-256R 151 30 4-256R 023 30	IF Transformer, FM IF Transformer, FM
123-2-146R 260 123-0-511R 182	Pointer, Dial Scale		T306	4-256R 001 30	IF Transformer, AM
	Ribbon, Cloth, Battery Take-out	1	T307	4-256R 172 30	IF Transformer, AM
123-2-135R 109 A 123-2-311R 194 A	Eye-shot Closer, Band Selector Switch Chassis, Plastic	1 1	T308 T701	4-256R 002 30 4-251R 238	IF Transformer, AM Transformer, 220V, AC Step-down,
123-2-311R 194 A 123-2-310R 191	Bracket, Switch & Volume Control mtg.	1			RP-5311 Z,
123-2-372R 002 A	Bracket, Speaker mtg. Tuning Shaft	2	T701	4-251R 226 71	Transformer, 220V, AC Step-down, RP 5311 SM
123-0-566R 142 123-2-415R 002	Hex. Nut, Tuning Shaft mtg.	1 1	T701	4-251R 244	Transformer, 117V, AC Step-down,
123-2-538R 004 A	Drum	1 1			RP 5311 PF, Canada
123-2-425R 002 123-2-481R 008	Screw, Drum mtg. Tension Spring, Dial Cord Stringing		DEC	SISTORS	
123-2-543R 008 A	Pulley	2	n E	JIJIUNJ	-
123-2-543R 002	Pulley Dial Cord, 0.3 mm dia., Tetron	1	R-701	4-222R 915	Volume Control, 10K D, W/On-off Switch
Ref. D N		-	R105,112		270K ohms ±10% 1/4W 100 ohms ±10% 1/4W
No. Part No	. Description		R106	R-R101K R-R822K	8.2K ohms ±10% 1/4W
			R301,321	R-R221K	220 ohms ±10% 1/4W
ELECTRIC ITE	MS		R303	R-R151K	150 ohms ±10% 1/4W 10K ohms ±10% 1/4W
R701 4-222R 915 Variable Resistor, Volume Control			R306 R307	R-R103K R-R122K	1.2K ohms ±10% 1/4W
R701 4-222R 91 S1,S3 4-231R 14			R311	R-R474K	470K ohms ±10% 1/4W
S2 4-231R 14	<ul><li>9 Switch, Slide, FM-AM Band Select</li></ul>		R117,312		1K ohms ±10% 1/4W 560 ohms ±10% 1/4W
4-243R 12 4-243R 14			R314 R323	R-R561K R-R153K	15K ohms ±10% 1/4W
4-243R 13		ada	R704	R-R5N6K	5.6 ohms ±10% 1/4W
4-235R 13			R706	R-R222K	2.2K ohms ±10% 1/4W

NOTES; 1. Parts orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and / or resistors must be multiple of 10pcs.

Schematic		· ·		
Location	Part No.	Description		
RESIST	TORS			
·R710	R-R121K	120 ohms ±10% 1/4W		
·R155 R751	R-R154K R-R471K	150K ohms ±10% 1/4W 470 ohms ±10% 1/4W		
R752	R-R220K	22 ohms ±10% 1/4W		
R753	R-R151K	150 ohms ±10% 1 W		
R754	R-R8N2K	8.2 ohms ±10% 1/4 W		
R755 R-R5N6K		5.6 ohms ±10% 1/4W		
PRINT	D RESISTORS			
PR101,110	R-R221K	220 ohms ±10% 1/4W		
PR102,104, 109	ਮ-R222K	2.2K ohms ±10% 1/4W		
PR103	R-R563K	56K ohms ±10% 1/4W		
PR107,707	R-R472K	4.7K ohms ±10% 1/4W		
PR108,305	R-R333K	33K ohms ±10% 1/4W		
PR111,310,	R-R562K	5.6K ohms ±10% 1/4W		
315,316 PR302	R-R681K	680 ohms ±10% 1/4W		
PR308	R-R151K	150 ohms ±10% 1/4W		
PR309,313, 317	R-R102K	1K ohms ±10% 1/4W		
PR318	R-R103K	10K ohms ±10% 1/4W		
PR319	R-R271K	270 ohms ±10% 1/4W		
PR702	R-R683K	68K ohms ±10% 1/4W		
PR703 PR705	R-R473K R-R101K	47K ohms ±10% 1/4W		
PR708	R-R121K	100 ohms ±10% 1/4W 120 ohms ±10% 1/4W		
PR709	R-R561K	560 ohms ±10% 1/4W		
CAPACITORS				
C101	R-CKD200K	Ceramic 20pF ±10% 25V		
C102,112	R-CKD050K	Ceramic 5pF ±10% 25V		
C103,109,	R-CKD300K	Ceramic 30pF ±10% 25V		
315 C104,113	R-CQS103M	Mylar 0.01mfd ±20% 50V		
C105,111,	R-CKD102Z	Ceramic 0.001mfd +80% 25V		
301 C106,123	R-CKD220J	Ceramic 22pF ±5% 25V		
C107,151	R-CKD030K	Ceramic 3pF ±0.5pF 25V		
C108	R-CKD030J	Ceramic 3pF ±0.25pF 25V		
C110,325	R-CKD501M	Ceramic 500pF ±20% 25V		
C114,714	R-CQS332M	Mylar 0.0033mfd ±20% 50V		
C115 C116	R-CQT121J R-CKD030K	Styrol 120pF ±5% 125V Ceramic 3pF ±0.5pF 50V N3300		
C119	R-CKD030K	Ceramic 3pF ±0.5pF 50V N3300 Ceramic 10pF ±10% 25V		
C310,311	R-CKD103Z	Ceramic 0.01mfd +80% 25V		
313 C317	R-C9882-2	Electrolytic 4.7mfd 6.3V		
0317	11-03002-2	=.conorytic 4.7imu 0.5v		

Schematic Location	Part No.	Description		
CAPACITORS				
C302,303, 306,324 C305 C307 C309,312, 323 C319,320 C321 C701,703 C702,706 C704 C705 VC C751,755 C752 C753,760 C754 C756	R-CKD203Z R-CQS222M R-C9205-2 R-CQS203M R-CKD201M R-CKD010J R-C9203-2 R-C9879-2 R-C9880-2 R-CKD821M 4-222R 083 R-CKD501M  R-CQS203M R-CQS473M	Ceramic 0.02mfd ±80% 25V  Mylar 0.0022mfd ±20% 50V  Electrolytic 10mfd 6.3V  Mylar 0.02mfd ±20% 50V  Ceramic 200pF ±20% 25V  Ceramic 1pF ±0.25pF 25V  Electrolytic 1mfd 10V  Electrolytic 220mfd 10V  Electrolytic 100mfd 6.3V  Ceramic 820pF ±20% 25V  Tuning Capacitor, FM-AM Gang  Ceramic 500pF ±20% 50V  Electrolytic 330 mfd 10V  Electrolytic 1000 mfd 10V  Mylar 0.02 mfd ±20% 50V  Mylar 0.047 mfd ±20% 50V		
C757,758  Part No.	R-CKD103Z Ceramic 0.01 mfd ±20% 50 V  Description			
FASTEN	ASTENERS			
R-Y012604 R-Y012004 R-Y032008 R-Y062604 R-Y113006 R-Y113006 R-Y113010 R-Y113010 R-Y113006 R-Y332600 R-Y36266803 R-Y36266803 R-Y36236003 R-Y333001 R-Y333000 R-Y333000	Screw, Pan Head Screw, Oval Cou Ant. mtg. Screw, Round H Screw, Pan Head Screw, Pan Head Screw, Pan Head Screw, Pan Head Screw, Pan Head Spring Washer, 2 Fiber Washer, 2. Fiber Washer, 2. Hex. Nut, 3mm Washer, 3mm di	d, 2.6 x 4 Volume Control mtg. d, 2 x 4 Slide Switch mtg. inter-sunk Hd, 2×8, Telescopic lead, 2.6 x 4 Tuning Capacitor mtg. d, Tapping, 3 x 6, Bracket mtg. d, Tapping, 3 x 6, Circuit Board mtg. d, Tapping, 3 x 10, Chassis mtg. d, Tapping, 3 x 6, Dial Scale mtg. d, Tapping, 3 x 10, Chassis mtg. d		

NOTES; 1. Parts orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and / or resistors must be multiple of 10 pcs.

The Model Number will be found on the unit bottom. Always mention the Model Number when requesting service or repair parts for your AM/FM SOLID STATE RADIO. Any informations on repair parts may be obtained from the SANYO Authorized Service Station.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

1. The CODE NO 2. The PART DESCRIPTION 3. The Model Number RP 5311 PF, RP 5311 SM or RP 5311 Z

SANYO ELECTRIC TRADING CO., LTD. 18-2, Keihan-hondori, MORIGUCHI, OSAKA, JAPAN

Service Stations EUROPE: Name + Address of Nearest Agent or Service Stations in Europe countries may be obtained from: "SANYO Servicecenter",

P.O.Box CH-4001 Basel'/Swizterland.

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